

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

We claim:

1-18. (canceled)

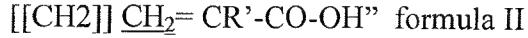
19. (Currently Amended) An adhesive composition comprising an amount of an adhesive and an amount of at least one additive, ~~characterized in that wherein~~ the additive comprises:

a. at least one homopolymer of an alpha beta-unsaturated monocarboxylic acrylic acid having 3-5 carbon atoms, which corresponds to formula I:



wherein R is a substituent selected from the group of H, monovalent alkyl, aryl, alkylaryl radicals, monovalent cyclo alkyl radicals, alkoxy, haloalkyl, cyanoalkyl containing 1 to 9 carbon atoms,

b. or at least one copolymer thereof with at least one alkyl acrylate represented by formula II



in which R' is selected from the group of H, methyl, ethyl and with an additive where R'' is a C10-C30 alkyl group,

the at least one homo- or copolymer being cross-linked with a cross-linking agent which is a polyfunctional alkylalkylene or a polyfunctional alkyalkylidene monomer containing at least two terminal methylene $[[\text{CH}_2]]$ $\text{CH}_2=\text{C}$ groups, and having a molecular weight of between 0.05 billion Dalton-100 billion Dalton.

20. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the homo- or copolymer is cross-linked with a cross-linking agent which is a polyfunctional vinylidene monomer.

21. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the at least one homo- or copolymer is cross-linked with a cross-linking agent having a molecular weight of between 0.5-10 billion Dalton.

22. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the at least one homo- or copolymer is cross-linked with a cross-linking agent having a molecular weight of between 1-5 billion Dalton.

23. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the at least one homo- or copolymer is a polymer of acrylic acid or methacrylic acid.

24. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein in formula II, R" is a C10-C20 alkyl group.

25. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the cross-linking agent is a polyalkenyl polyether.

26. (Currently Amended) The adhesive composition of claim 25, ~~characterized in that~~ wherein the cross-linking agent is an allylpentaerythritol.

27. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~

wherein the adhesive composition is a pseudo plastic material.

28. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the adhesive composition is an adhesive composition based on starch, cellulose, pea originating cellulose or a polyvinylacetate adhesive composition or a mixture of two or more of these.

29. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the composition contains at least 0.001 wt. %, preferably at least 0.05 wt. % of the at least one additive, and less than 5 wt. %, preferably less than 1 wt. %, more preferably less than 0.5 wt. % of the at least one additive with respect to the total weight of the adhesive composition.

30. (Currently Amended) The adhesive composition of claim 19, ~~characterized in that~~ wherein the composition contains between 0.5-50 parts by weight of starch, between 0.01-2.5 parts by weight of alkalihydroxide, between 0.01-2 parts by weight of borax and between 80-150 parts by weight of water.

31. (Currently Amended) A process for producing the adhesive composition as claimed in claim 19, ~~characterized in that~~ wherein the at least one additive as claimed in any one of claims 1-11 claim 1 is first diluted with starch, cellulose or a polyvinylacetate adhesive in a weight ratio of 75-100, ~~preferably 90-95 parts by weight of starch, and 0.5-10 and 1-10,~~ ~~preferably 4-9 parts of polyacrylate,~~ and thereafter mixed with the adhesive composition.

32. (Currently Amended) The process of claim 31, ~~characterized in that~~ wherein 1-5 parts of optical clarification agent is added to the adhesive composition.

33. (Currently Amended) A process for the production of laminated corrugated paper or card board, comprising a plurality of super imposed layers of corrugated paper or card connected together by intermittent flat sheets of paper, ~~characterized in that~~ wherein an amount of the adhesive composition according to claim 19 is applied to the top of the corrugations, where after

the layers are adhered to each other under pressure.

34. (Currently Amended) Paper board or card board comprising a plurality of super imposed layers of corrugated paper or card connected together by intermittent flat sheets of paper, ~~eharacterized in that wherein~~ the layers are adhered to each other by means of the adhesive composition as claimed in claim 19.

35. (Original) A compact paper or card board comprising a plurality of super imposed layers of paper or card, which are adhered to each other by means of the adhesive composition of claim 19.

36. (Original) Paper comprising an amount of the adhesive composition as claimed in claim 19.

37. (Currently Amended) A process for the production of compact paper or card board comprising a plurality of super imposed layers of paper or card, ~~eharacterized in that wherein~~ an amount of the adhesive composition of claim 19 is applied to the layers, where after the layers are adhered to each other under pressure.

38. (Currently Amended) A solid premix which is ~~eharacterized in that wherein~~ it contains about 5-50, preferably 10-30 parts of alkali, ~~preferably caustic soda~~, about 200-750, ~~preferably 350-550~~ parts of starch powder, about 0.01-5 and ~~preferably 0.5-2.5~~ parts of the at least one additive claimed in claim 19.

39. (Currently Amended) The solid premix of claim 38, ~~eharacterized in that wherein~~ the solid premix further contains about 20-80, ~~preferably 40-60~~ parts of gelatinised starch.

40. (Currently Amended) The solid premix of claim 38, ~~eharacterized in that wherein~~ the premix contains about 1-25, ~~preferably 5-15~~ parts of a buffer.

41. (Currently Amended) The solid premix of claim 40, ~~eharacterized in that~~ wherein borax is used as the buffer.